

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS PO Box 1450 Alexandria, Virginia 22313-1450 www.emplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/581,353	05/31/2006	Uwe Hauf	2006-084	3626
27569 7590 07/22/2010 PAUL AND PAUL 2000 MARKET STREET			EXAMINER	
			MACARTHUR, SYLVIA	
	SUITE 2900 PHILADELPHIA, PA 19103		ART UNIT	PAPER NUMBER
THEATSLEET	IIA, 17A 17103		1716	
			NOTIFICATION DATE	DELIVERY MODE
			07/22/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

INFO@PAULANDPAUL.COM claire@paulandpaul.com fpanna@paulandpaul.com

Application No. Applicant(s) 10/581,353 HAUF ET AL. Office Action Summary Examiner Art Unit Sylvia R. MacArthur 1716 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 12 May 2010. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-6.9-24 and 26 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-6,9-24 and 26 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10)⊠ The drawing(s) filed on 31 May 2006 is/are: a)⊠ accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

Attachment(s)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date

Notice of Draftsperson's Patent Drawing Review (PTO-948)

information Disclosure Statement(s) (PTO/SB/08)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

Application/Control Number: 10/581,353 Page 2

Art Unit: 1716

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 5/12/2010 have been fully considered but they are not persuasive. Despite applicant's amendments, the examiner will maintain rejections that have been recited previously. Applicant argues in the Remarks that the prior art of Henington et al (EP 0959153) fails to teach a) the treatment devices of Henington et al have not insertion elements to carry or secure them, b) Henington et al has no disclosure as to how its treatment devices are mounted in its apparatus; and c) Henington et al has no disclosure whatsoever that any treatment devices 16 fits into a recess in any carrier elements or that the treatment devices are carried by carrier elements. The examiner notes that Henington teaches electrolytic treatment of flat workpieces (PCBs) therein Henington provides conveying members 20a,b and treatment devices fluid delivery apparatus (nozzles 16,18). Regarding applicant's declarations regarding commercial success. All of the competent rebuttal evidence has been taken as a whole and weighed against the evidence supporting the prima facie case per In re Piasecki, 745 F.2d 1468, 1472,223 USPQ 785, 788 (Fed. Cir. 1984) USPQ 785 (Fed. Cir. 1984). According to MPEP 716.06 (b) in order to be of probative value, any secondary evidence must be related to the claimed invention. Additionally, to be of probative value, any objective evidence should be supported by actual proof, see MPEP 716.01(c). Note that the attorney's arguments cannot take the place of evidence.

Applicant discusses commercial success as secondary evidence, however to be of probative value, any secondary evidence must be related to the claimed invention. Nexus is required in that the term "nexus" designates a factually and legally sufficient connection between

Art Unit: 1716

the objective evidence of nonobviousness and the claimed invention so that the evidence is of probative value in the determination of nonobviousness. Demalco Corp. v. Von Langsdorff Licensing Ltd., 851 F.2d 1387, 7USPQ2d 1222 (Fed. Cir.) cert. Denied, 488 U.S. 956 (1988).

Specifically, upon reviewing applicant's declaration it was noted that no evidence concerning what the treatment devices comprise. Also, no comparisons with sales of other devices were discussed. Additionally, no indications of prior sales or figures were included. Furthermore, no indications of choices available to customers were discussed.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
 obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-6, 9-24 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Henington et al (EP 0959153).

Regarding claims 1,4, 23, 24, and 26: Henington et al teaches an electroplating machine (electrolytic treatment) of lat workpieces (PCBs), comprising conveying members (rollers 20A, B) on conveying path, see Fig. 1. Carrier elements are illustrated in Fig.7C comprise recess 116, insertion elements 24 are illustrated in Figs. 7A,B. Fig. 7c illustrates how the recess and carrier elements fit. Note that the intended use of the apparatus is not given structural patentable weight as an apparatus is what it is and not what it does. It is noted that Henington does not provide more than one conveying member or at least two conveying members located as newly recited.

Art Unit: 1716

However, applicant has not established the criticality of the need for a plurality of conveying members. The examiner interprets this is a matter of duplication of parts. According to In re Japikse, 181 F. 2d 1019, 86 USPQ 70 (CCPA 1950) In re Kuhle, 526 F. 2d 553, 188 USPQ 7 (CCPA 1975), the mere duplication of parts has no patentable significance unless a new and unexpected result is produced. The motivation to provide a plurality of conveying members is to increase the throughput. Thus, it would have been obvious for one of ordinary skill in the art to duplicate the conveying members of Henington et al in order to increase the throughput. See [022], the fluid delivery device (treatment device) includes nozzle 52 known as flow, jet and/or fan nozzles.

Regarding claim 2: See Fig. 7C

Regarding claims 3 and 6: See Fig. 1.

Regarding claim 5: The teachings of Henington et al were discussed above.

Henington et al fails to teach the axles of the conveying rollers are offset. This arrangement is an alternative to the claimed arrangement of [0039] and [0040]. The motivation to offset the axles is to extend the range of motion of the conveying rollers. Thus, it would have been obvious for one of ordinary skill in the art at the time of the claimed invention to offset the axles of the conveying rollers.

Regarding claim 9: See [022].

Regarding claim 10: [0029].

Regarding claims 11-19: Henington et al fails to teach the particular arrangements of the components as recited. Note that the arrangements are well within the parameters of design of

Art Unit: 1716

one of ordinary skill in the art and barring a showing of criticality by applicant are deemed obvious and are alternative arrangements of the apparatus of Henington et al.

Regarding claims 20-22: See Figures.

 Alternatively, claims 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Henington et al (EP 0959153) in view of Pender (US 4.607,590).

The teachings of Henington et al were discussed above. Pender fails to teach the axles of the conveying rollers are offset. See Figure 1 of Pender. The motivation to modify the apparatus of Henington et al is that the offset axles so that no substrate will be damaged by other substrates or their peripheral edges do not touch, see col. 4 lines 24-65. Thus, it would have been obvious for one of ordinary skill in the art at the time of the claimed invention to modify the apparatus of Henington et al to offset the axles of the rollers.

 Alternatively, claims 11-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Henington et al (EP 0959153) in view of Haas et al (DE 4035932).

Henington et al fails to teach the particular arrangements of the components as recited. See the Figures of Haas et al that teach or suggest the claimed arrangements. Note that the arrangements are well within the parameters of design of one of ordinary skill in the art and barring a showing of criticality by applicant are deemed obvious and are alternative arrangements of the apparatus of Hennington et al. The motivation to arrange the components of the apparatus as claimed is that it a mere matter of optimization and design choice, applicant has failed to provide a showing of criticality of the arrangements. Thus, it would have been obvious for one of ordinary skill in the art at the time of the claimed invention to modify the apparatus of Henington et al with the

Art Unit: 1716

apparatus of Haas et al to arrange the apparatus as recited in the claims in order to optimize the treatment of the substrates.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sylvia R. MacArthur whose telephone number is 571-272-1438. The examiner can normally be reached on M-Th during the hours of 8 a.m. and 4:30 p.m.. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Parviz Hassanzadeh can be reached on 571-272-1435. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/581,353 Page 7

Art Unit: 1716

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

July 18, 2010

/Sylvia R MacArthur/ Primary Examiner, Art Unit 1716